

POLACEK, K.

The prognostic significance of the dynamics of the bilirubin level
in haemolytic disease of the newborn. Rev. Czech. M. & no.1:12-20
'62.

1. Institute for Care of Mother and Child, Prague-Podoli. Director
of Paediatric Research: K. Polacek, M.D.
(ERYTHROBLASTOSIS FETAL blood) (BILIRUBIN blood)

POLACEK, K.

Making use of new techniques. Strojirenstvi 12 no.1:1-2 Ja '62.

1. Ministr vseobecneho strojirenstvi.

KREJCI, L.; VYMAZAL, J.; KREJCIOVA, H.; POLACEK, L.

Cerebrospinal fluid findings in patients with retrobulbar neuritis with special regard to the gamma globulin level.
Cas. lek. cesk. 104 no.27/28:762-766 9 Jl '65.

1. II. ocní klinika fakulty všeobecného lekarství Karlovy University v Praze (prednosta akademik J. Kurz), Neurologická klinika fakulty všeobecného lekarství Karlovy University v Praze (prednosta akademik K. Henner) a Neurologické oddělení Obvodního ústavu národního zdraví v Praze 1 (vedoucí MUDr. L. Polacek).

L-33497-66

ACC NR. AP6023453

SOURCE CODE: CZ/0082/66/000/002/0073/0080
30
*B*AUTHOR: Vymazal, J.; Polacek, L.ORG: Neurological Clinic, Faculty of General Medicine, KU /headed by Academician K. Henner/, Prague (Neurologicka klinika fakulty všeobecného lekarství KU); Neurological Department, Hospital /headed by Doctor of medicine L. Polacek/, Prague (Nervové oddělení nemocnice) *22*

TITLE: Gamma-globulin level of cerebrospinal fluid in relation to the clinical picture and course of disseminated sclerosis

SOURCE: Československá neurologie, no. 2, 1966, 73-80

TOPIC TAGS: gamma globulin, man, cerebrum, central nervous system, cytology, clinical medicine

ABSTRACT: Spinal fluid of 80 patients suffering from disseminated sclerosis was investigated. In 77.5% there was an increase in the gamma-globulin level. In the cerebrospinal form this increase is more pronounced than in the purely spinal form of the disease. It is more pronounced in severe cases and in chronic cases. During remission the gamma-globulin level reverts to normal in more than $\frac{1}{2}$ of the cases. It seems that the gamma globulin level depends on the pleocytosis. The authors thank Professor, Doctor Mack; Docent, Doctor Simek; Doctor of Medicine Pleskot; Doctor of Medicine Kohout; Doctor of Medicine Svododa; Doctor of Medicine Danes and Doctor of Medicine Krejci for giving the clinical data of the patients. Orig. art. has: 3 figures and 5 tables. [Based on authors' Eng. abst.] [JPRS]

SUB CODE: 06 / SUBM DATE: 26 May 65 / ORIG REF: 004 / OTH REF: 016

Card 1/1 *80*

POLACEK, L.
(Article 1812)

Neurologicka klin. Karlovy univ., Praha. Pseudomyopathicka dermatomyositis a myogeni pseudobulbari syndrom. Pseudomyopathic dermatomyositis and a pseudobulbar syndrome Neurol. Psychiat. csl. 1950, 13/3 (166-169)

Two cases are described. In both of them wasting of the muscles of the arms and shoulder girdles was present. The wasted muscles were covered with normal skin. The authors call this type of dermatomyositis pseudomyopathic. In case (1) a bulbar palsy developed. The cause of this apparently bulbar palsy were myositic changes in the muscles of the tongue and of the larynx. This case is evidence of the possibility of a pseudobulbar myogenic syndrome.

Henner - Prague

Source: EXCERPTA MEDICA Vol. 5 No. 5 Section VIII May 1952

POLACEK, L.
(125)

Neurol. klin. Karlovy univ. Kolisani lipolyticke mohutnosti sera u nemocnych
roztrouesenou sklerosou mozkomisni Variations in the level of lipases in the blood
in multiple sclerosis Biol. Listy 1951, 32/3(175-179) Graphs 4 In a former paper
it was stated that the level of lipases in the serum is increased in m.s. and that
this increase was greater in progressive cases than in cases with remissions. The
present paper reports observations of the level of lipases in 28 cases of m.s. at
14-day intervals over a period varying from 6 months to 2 yr. In 22 cases an
increase corresponded to clinical exacerbation and a decrease to remission. In 9
cases the lipolytic curve followed the clinical course exactly. Intermittent
infections, injury etc. may cause an increase in the level of lipases without clinical
progression. A relationship between the m.s. and the level of lipolytic ferments is
verified. Observation of the level is useful in the assessment of various therapeutic
methods and for prognosis.

Henner - Prague

SO: EXCERPTA MEDICA Volume 6, Number 1, Section VIII - January 1953

POLACEK L.
(2919)

Neurol. Klin., Karlovy Univ., Praha. * Ovlivnenie delta aktivity n lidskem elektroencefalogrammu thyroxinem. Influence of thyroxin on the EEG slow wave (delta) activity in man NEUROL. PSYCHIAT. SCL. 1953, 16/1-2 (14-24) Graphs 11. The EEG changes were observed after the administration of thyroxin in 47 cases. Slow wave activity, present in 33 cases, prior to thyroxin, was reduced in 6 cases, limited to 1 or 2 channels near the focus in 8 cases, and disappeared completely in 16 cases. Generally, oedema of the brain is regarded as a cause of the slow wave activity. The authors explain the disappearance of delta activity after thyroxin by dehydration and possibly also by increased metabolism. In cases of generalized slow-wave activity the thyroxin test may help to discover focal electrical abnormality. Authors

SO: EXCERPTA MEDICA, VOL. 7 NO. 8, SECTION VIII August 1954

HENNER, K.; BEJSOVEC, M.; LOUCKA, V.; MASAK, A.; POLACEK, L.; PONCA, E.;
SVOBODA, A.; VACEK, M.

Multiple sclerosis in Czechoslovakia. Acta Univ. Carol. [med.]
(Praha) 10 no.7:541-548 '64

1. Neurological Department, Faculty of General Medicine, Charles
University, Prague (Director: Academician Prof. MUDr.K.Henner,
DrSc.).

POLACHEK, L.

Use of o-tolyether glycerol in neurology, Cas. lek. cesk. 92 no.15:403-406
10 Apr 1953. (CIML 24:4)

1. Of the Neurological Clinic (Head--Prof. K. Henner, M. D.) of Charles University, Prague. 2. Chemotherapy with curare-derivatives.

DRECHSLER, B., As., Dr.; LESNY, Ivan, Dr.; POLACEK, Lev, Dr.

Significance of diffuse rapid activity in electroencephalography
in humans. Neur. & psychiat. cesk. 18 no.6:434-442 Nov 55.

1. Z neurologické kliniky Karlovy univerzity v Praze, predn. akad.
K. Henner.
(ELECTROENCEPHALOGRAPHY,
diffuse rapid activity in. (Cs))

KREJCI, L.; POLACEK, L.; KREJCOVA, H.

Electroencephalographic findings in primary glaucoma in children and adolescents. I. EEG findings in patients with infantile glaucoma. Cesk. oftal. 21 no.1:9-17 Ja '65

Electroencephalographic findings in primary glaucoma in children and adolescents. II. EEG findings in patients with juvenile glaucoma. Ibid.:18-23

1. II. ocní klinika fakulty všeobecného lekarství Karlovy University v Praze (prednosta: akademik J. Kurz); Nervová oddělení Obvodního ústavu národního zdraví v Praze 1 (vedoucí: MUDr. L. Poláček); a Nervová klinika fakulty všeobecného lekarství Karlovy University v Praze (prednosta: akademik K. Henner).

KREJCI, L.; POLACEK, L.; KREJCOVA, H.

Electroencephalographic findings in glaucoma patients in relation
to intraocular pressure and visual field changes. Cesk. oftal. 18
no.6:453-462 N '62.

1. II. ocní klinika fak. všeob. lekarství University Karlovy v Praze,
prednosta akademik J. Kurz — Neurologické oddelení OUNZ v Praze 1,
prednosta MUDr. I. Poláček.
(GLAUCOMA) (ELECTROENCEPHALOGRAPHY)
(VISUAL FIELDS)

KREJCOVA, H.; POLACEK, L.; STEIN, J.

Jacksonian paroxysms of non-tumorous origin. Cesk. neurol.
28 no.5:350-361 S '65.

1. Neurologicka klinika fakulty všeobecného lekarství Karlovy
University v Praze (prednosta akademik K. Henner), Neurologické
oddelení nemocnice v Praze 1 - Na Frantisku (vedoucí MUDr.
L. Poláček) a Laborator pro patofyziologii nervového systému v
Praze (vedoucí akademik K. Henner).

1/1
CZECHOSLOVAKIA

STEIN, J.; KRAJCOVA, H.; POLACEK, L.: Laboratory for Pathophysiology of the Nervous System and Neurological Clinic, Faculty of General Medicine, Charles University (Laborator pro Patofyziologii Nervového Systému a Neurologická Klinika Fak. Všeob. Lek. KU), Prague, Head (Prednosta) Member of Academy K. HENNER; Neurological Department Hospital (Neurologicko Oddelení Nemocnice) Na Frantisku, Prague, Head (Vedoucí) Dr L. POLACEK.

"Epileptic Fits in Patients with Intracranial Expanding Lesions."

Prague, Ceskoslovenska Neurologie, Vol 29, No 3, May 66, pp 194 - 202

Abstract /Authors' English summary modified/7: 170 patients with expanding lesions accompanied by secondary epilepsy were investigated. 91 suffered from generalized convulsions, 79 from jacksonian fits. In the 1st group grand mal epilepsy (56) and psychomotor seizures (26) were most frequent. The majority of the jacksonian seizures were motor fits. In 74 patients a combination of seizures was found. The cause of the epileptic fits in 121 cases was intracerebral, and in 49 cerebral lesions. In 67 there were malignant, and in 95 benign tumors. In 8 cases there was no tumor. All cases 1/2

CZECHOSLOVAKIA

Prague, Ceskoslovenska Neurologie, Vol 29, No 3, May 66, pp
194 - 202 [continued]

of the motor Jacksonian seizures were due to a lesion in the parietal lobe. Frontal lesions cause grand mal epilepsy. Exceptionally epileptic paroxysms were caused by a posterior fossa tumor. EEG findings in all patients were abnormal. In 89.4% the EEG corresponded to autopsy findings. Intracerebral lesion of the parietal region constitutes an obstacle to the propagation of the epileptic stimulus from the parietal cortex towards periphery. Sensory Jacksonian epilepsy does not usually occur in this localisation of the lesion; it is found in extracerebral parietal expanding lesions. 6 Figures, 15 Western, 6 Czech references. (Manuscript received Jan 65).

2/2

BRAUN, Alexandr; POLACEK, Lev; RUDOSKY, Oleg

Unusual course of porphyria with the clinical picture of subacute anterior poliomyelitis. Acta univ. carol. [med.] 8 no.1:3-11 '62.

1. I. patologickanatomicky ustav fakulty vseobecneho lekarstvi University Karlovy prednosta prof. dr. B. Bednar Neurologicke oddeleni nemocnice v Praze 1, na Frantisku 8, prednosta primar dr. L. Polacek.

(PORPHYRIA) (POLIOMYELITIS)

KREJCI, L.; POLACEK, L.; KREJCOVA, H.

Effect of pathological fluctuations of intraocular pressure
on electroencephalographic findings in patients with glaucoma.
Cesk. oftal. 19 no. 3:171-178 My '63.

1. II ocní klinika fakulty všeobecného lekarství KU v Praze,
prednosta akademik J. Kurz Nervové oddělení OUNZ v Praze 1,
vedoucí MUDr. L. Poláček.

(INTRAOCULAR PRESSURE) (ELECTROENCEPHALOGRAPHY)
(GLAUCOMA)

POLACEK, L.; KREJCI, O.; KUNC, Zd.

Third-degree vertical downward nystagmus due to basilar impression.
Roshl.chir. 34 no.4:246-253 Apr '55.

1. Neurologicka klinika KU v Praze, prednosta akademik prof. Dr.
Kamil Henner I. chirurgicke oddeleni UVN v Praze

(NYSTAGMUS

downward, vertical caused by basilar impression, surg.)

(OCCIPITAL BONE, abnormalities

basilar impression causing downward vertical nystagmus of
third degree, surg.)

LESNY, Ivan, Doc., Dr.; POLACEK, Lev, Dr.

Synthetic concept on the pathogenesis of multiple sclerosis and
of related demyelinating diseases. Cas. lek. cesk. 95 no.14:377-
381 6 Apr 56.

1. Z neurologicke kliniky Karlovy university v Praze (prednosta
akademik K. Henner).
(MULTIPLE SCLEROSIS, etiol. and pathogen.)

POLACEK, Lev

Encephalopathia pseudotumorosa. Mozkava onemocneni netumorosniho puvodu s nalezem mestnave papily vysokeho stupne na ocnim pozadi. (Pseudotumorous Encephalopathy; Brian Diseases of a Nontumorous Origin With a ? Optic Papilla on the Posterior Eye Pole. English, German, and Russian summaries. illus., bibl.) Authors: L. Polacek, J. Stein. Prague, SZdN, 1957. 77 p. Vol. 368 of the series Thomayerova sbirka prednasek a rozprav z oboru lekarskeho (Thomayer's Collection of Lectures and Discussions on Medicine).

Description of 17 cases with a serious syndroma of the intraskull hypertension showing a ? optic papilla and changes in the tension on the negative?/ X-ray pictures of skull and other symptoms of an increased intraskull tension. Authors' diagnosis points out to a brain endema caused by the frequent inflammation of the central nervous system in places having an extraordinary capacity of an endema reaction; they compare various studies., describe cases, and analyse them, offer diagnoses, prognoses, and corrections of the used terminology.

Bibliograficky katalog, CSR, Ceske knihy, No. 34. 1 Oct 57. p. 739.

POLACEK, L., MUDr.; STEIN, J., MUDr.

Velopalatinal myoclonia combined with sleep disorders and lesions
of the caudal cranial nerves. Cesk. neur. 20 no.1:59-67 Feb 57.

1. Neurologicka klinika Karlovy university v Praze, prednosta
akademik K. Henner.

(MYOCLONUS

velopalatinal, with sleep disord. & caudal cranial
nerve lesions (Cz))

(PALATE, dis.

myoclonus, velopalatinal, with sleep disord. & caudal
cranial nerve lesions (Cz))

(NERVES, CRANIAL, dis.

lesions of caudal nerves with velopalatinal myoclonus
& sleep disord. (Cz))

(SLEEP DISORDERS, compl.

myoclonus, velopalatinal, & lesions of caudal cranial
nerves (Cz))

POIACEK, Lev

VYMAZAL, Josef; POIACEK, Lev

Significance of protein electrophoresis in blood & cerebrospinal fluid
in disseminated sclerosis. Cesk. neur. 21 no.1:32-42 Jan 58.

1. Neurologicka klinika fakulty vseobecneho lekarstvi KU v Praze
a Laborator pro vyzkum pathofysiologie nervove soustavy, prednosta
akad prof. Kamil Henner.

(MULTIPLE SCLEROSIS,

electrophoresis of blood & CSF, diag. value (Cz))

POLACEK, L.; STEIN, J.

Experiences with sleep therapy of multiple sclerosis. Cesk. neur. 22
no.1:20-29 Feb 59.

1. Neurologicka klinika K.U. v Praze, prednosta akad. prof. K. Henner.
(MULTIPLE SCLEROSIS, ther.
sleep ther. (Cz))
(SLEEP. ther. use.
multiple sclerosis (Cz))

POLACEK, L.; VAJNORSKY, J.; NOVAK, S.; Technicka spoluprace: KREJCOVA, J.

EEG in normal 6 and 6 and a half-year-old children. Cesk. pediat.
20 no.11:946-956 N '65.

1. Neurologicke oddeleni Obvodniho ustavu narodniho zdravi v
Praze 1 (vedouci MUDr. L. Polacek) a Katedra preventivni pediatrie
fakulty detskeho lekarstvi Karlovy University v Praze (vedouci
prof. dr. K. Kubat).

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341710014-9

FOLACEK, M.

Calculating the stability of machine tools. p. 163. (Strojirenstvi, Vol. 7,
No. 3, Mar 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341710014-9"

POLÁČEK, Miloslav

Tallying the total cost plan. Podnik organizace 17 no.3:
108-111 Mr '63.

1. Ceskomoravska-Kolben-Danek Praha.

VESELY, Zdenek; POLACEK, Miloslav

Analysis, an important tool of management. Podnik organizace 17
no.1:8-12 Ja '63.

1. Ceskomoravska-Kolben-Danek Praha.

POLACEK, P., Dr.

Innervation of the periosteum, bone, and bone marrow.
Acta chir. orthop. traum. cech. 22 no.6:201-2^{U5} Nov 55.

1. Z anatomickeho ustavu VLA, Hradec Kralove.

(PERIOSTEUM, innervation.)

(BONE TISSUE, innervation.)

(BONE MARROW, innervation.)

POLACEK, Premysl; HALATA, Zdenek

Relations of the capsule of the nerve ending to the sheath
of the nervous system. Scr. med. fac. med. Brunensis 38
no.2/3:73-83 '65.

1. Anatomisches Institut der Medizinischen Fakultat der
J. Ev. Purkyne Universitat in Brno (Direktor: Doz. Dr.
med. Premysl Polacek).

POLACHEK, Pshemysl

Variability of bush-like nerve endings in joints. Cesk. morf.
11 no.3:257-265 '63.

1. Iz instituta anatomici meditsinskogo fakul'teta universi-
teta im. YA. Yev. Purkine, Brno (rukovoditel' dots. d-r med.
Pshemysl Polacheck, kandidat med. nauk).
(NERVE ENDINGS) (JOINTS)

POLACEK, P.; NOVOTNY, Vl.

Sex differences of the bony pelvis in growing macaques. Cesk.
morf. 13 no. 2:145-157 '65

1. Institute of Anatomy of the Medical Faculty of J.E. Purkyne's
University in Brno, Czechoslovakia.

Country : CZECHOSLOVAKIA
Category: Human and Animal Morphology (Normal and Pathological).
 Nervous System. Peripheral Nervous System.

S

Abs Jour: RZhBiol., No 2, 1959, No 7555

Author : Polacek, Pravysl.

Inst :

Title : Morphological Changes of Innervation of Joints in
 Experimental, Functional and Pathologic Conditions
 in Laboratory Animals.

Orig Pub: Acta chirurg., orthopaed. et traumtol. cehosl., 1956
 23, No 6, 286-292

Abstract: In prolonged training the innervation of the joint
 increases, chromatophilia of the nerve elements in-
 creases; however, in excessive training symptoms of
 irritation (varicose distention, swelling) appear in

Card : 1/2

S-28

POLÁČEK, P.

EXCERPTA MEDICA Sec. 18 Vol. 2/7 Cardio July 58

2279. *Morphological changes in the peripheral nervous system in cooling and artificial hypothermia in laboratory animals* Morfologické změny periferního nervového systému při podchlazení a umělé hypotermii u pokusných zvířat. POLÁČEK P. and LEDINSKÁ N. Hradec Králové Csl. Morfol. 1957, 5/1 (49-56) Illus. 18

Lowering of the body temperature in rats and rabbits was achieved by applying ice or by artificial hypothermia brought about by a mixture of pharmaca or by a neuroplegia with largactil. The nerve fibres in the joint capsule, heart and intestine were investigated after impregnation with silver or supravital staining by methylene blue. Increased argyrophilia resulted, also greater variability in fibre thickness and varicosity. The sensory nerve fibres were most altered, the thin autonomous nerve fibres remaining unaffected. The lower the body temperature and the longer the action, the greater the changes. When cooled by ice the changes are greater than in hypothermia caused by pharmaca. Malinský - Olomouc (I, 2, 18)

HRROMADA, J.; POLACEK, P.

Findings in the peripheral nerve branches following lethal roentgen-irradiation in rats. Cesk. fysiol. 7 no.4:356-357 July 58.

1. Vojenska lekarska akademie J. E. Purkyne, Hradec Kralove.
(NERVES, PERIPHERAL, eff. of radiations,
x-ray, lethal dose, histol. aspects in rats (Cz))
(ROENTGEN RAYS, effects,
on peripheral nerves, histol. aspects of lethal dose in
rats (Cz))

EXCERPTA MEDICA Sec 9 Vol 13/3 Surgery Mar 59

1491. (412) N. FEMORALIS ACCESSORIUS, N. OBTURATORIUS ACCESSORIUS
AND THEIR PRACTICAL SIGNIFICANCE IN HIP JOINT SURGERY -
N. femoralis accessorius a obturatorius accessorius a jejich praktický
význam v chirurgii kyčelního kloubu - Poláček, P. Kat. Anat. Vojenské
Lék. Akad. J. Ev. Purkyně, Hradec Králové - ACTA CHIR. ORTHOP.

TRAUM. ČECH. 1958, 25/2 (150-155) Tables 2 Illus. 3
Dissection of the hip region of 30 human bodies revealed the presence of an
accessory femoral nerve in 8, and of an accessory obturator nerve in 6, in all
cases richly innervating the hip joint. The hidden course of N. obturatorius acces-
sorius offers a ready explanation of the frequent failures in denervation of the hip
joint, since in every 6th hip joint this nerve substitutes for the articular branches
of the obturator nerve.

(IX, 1, 9)

GROMADA, Jan [Hromada, J.] (Chekhoslovakia); POLACHEK, Pshemysl
[Polacek, P.] (Chekhoslovakia)

Effect of roentgen irradiation of certain segments of the peripheral nervous system. Med. rad. 4 no.4:21-27 Ap '59. (MIRA 12:7)

(NERVES, PERIPHERAL, effect of radiations,

x-rays in rats (Rus))

(ROENTGEN RAYS, eff.

on peripheral nerves in rats (Rus))

POLACEK, Premysl, C.Sc, MUDr

Nerve supply of the knee joint in man. Cs morfologie 8 no.3:251-261
'60. (EEAI 9:10)

1. Katedra anatomie lekarske fakulty Karlovy University v Hradci
Kralove, prednosta Prof. MUDr. Jan Hromada.
(KNEE)
(NERVES)

POLACEK, Premysl; FIEDLEROVA, Dagmar

Localization of myocardial infarction in relation to some physical signs. Sborn. ved. prac. lek. fak. Karlov. univ. (Hrad. Kral.) 4 no.2 suppl.:177-185 '61.

1. Katedra anatomie; prednosta prof. Dr. Sc. MUDr. J. Hromada I interni klinika; prednosta prof. Dr. Sc. MUDr. J. Rehor.

(MYOCARDIAL INFARCT diag)

POLACEK, Premysl; SKLENSKA, Anna

Specific differences in the arrangement of joint receptors
in various rodents. Sborn. ved. prac. lek. fak. Karlov. Univ.
7 no.4:617-623 '64.

1. Katedra anatomie Lekarske fakulty University J. E. Purkyne,
Brno (prednosta: doc. MUDr. P. Polacek, DrSc.).

POLACEK, Premysl; POSPISILOVA, Jana

3 Rare cases of dystopic wisdom teeth in the ramus and processus muscularis mandibulae. Sborn. ved. prac. lek. fak. Karlov. univ. (Hrad Kral) 4 no. 3:308-316 '61.

1. Katedra anatomie; prednosta prof. Dr. Sc. MUDr. J. Hromada Stomatologicka klinika; prednosta doc. MUDr. L. Sazama.

(TEETH abnorm)

POLACEK, Premysl; STEINHART, Leo; ENDYRS, Jiri; VYSLOUZIL, Josef

Muscular bridges and loops over coronary arteries in coronariograms.
Cesk. morf. 10 no.3:251-258 '62.

1. Departments of Anatomy, Radiology and Surgery Charles' University
Medical Faculty, Hradec Kralove.
(CORONARY VESSELS radiography) (ANGIOGRAPHY experimental)

POLACEK, Premysl, Doc.Dr., C.Sc.; AUDRLICKA, Miroslava

Comparative anatomy of the muscular bridges and loops on the coronary arteries in mammals. Cs morfologie 9 no.3:191-199 '61.

1. Katedra anatomii Meditsinskogo fakul'teta Karlova universiteta v Gradts'e Kralove [Hradec Kralove], rukovoditel: prof. d-r med. Jan Gromada [Hromada, Jan] doktor meditsinskikh nauk)

(MAMMALS)

POLACEK, Premysl, Doc.Dr., C.Sc.; JECNA, Sona

Embedding of anatomic preparations in coal tar. Cs morfologie 9
no. 3:323-328 '61.

1. Anatomicky ustav lekarske fakulty Karlovy university v Hradci
Kralove, prednosta prof. dr. Sc. Jan Hromada.

(ANATOMY)

POLACHEK, Pshemysl [Polacek, Premysl]

Problem of differences in joint nerve endings of some mammals.
Cs morfologie 9 no.4:415-421 '61.

1. Katedra anatomii Meditsinskogo fakulteta Karlova universiteta v-
Gradtsi Kralove [Hradec Kralove]; rukovoditel: prof. d-r med. Jan
Gromada [Hromada, Jan] doktor meditsinskikh nauk.

(MAMMALS) (NERVOUS SYSTEM)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341710014-9

POLACEK, P.

Myocardinal infarc^t and muscular bridges and loops on the coronary arteries. Arkh. pat. 23 no. 1:23-29 '61. (MIRA 14:1)
(HEART--INFARCTION) (CORONARY VESSELS)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341710014-9"

POLACEK, V.

"Early stages of Japanese butterflies in color" by Shirozu,
Takashi, & Hara, Akira. Reviewed by V. Polacek.
Cas Entom 60 no.1/2:176 '63.

FASSATI, Milos; POLACEK, Vladimir B.

Interesting discovery of the Rosalia alpina alpina (L.) (Coleoptera, Cerambycidae) in Central Bohemia. Cas entom 61 no.3:295-297 '64.

l. Czechoslovak Entomological Society affiliated with the Czechoslovak Academy of Sciences.

Abs Jour: Ref Zhur-Biol., No 12, 1958, 56086.

Author : Polacek, Ye.

Inst

Title : Intraocular Pressure in Na and Cl Deficiency in
Rabbits.

Orig Pub: Ceskosl. fysiol, 1957, 6, No 2, 194-200.

Abstract: No abstract.

Card : 1/1

174

VLCEK, Frantisek, inz. CSc.; POLACH, Jan, inz.

Conference on plant cultivation without soil. Vest ust
zemodel 12 no.1:25-27 '65.

1. Research Institute of Vegetables, Olomouc.

POLACH, J.

"Experiences with automatic switching of reserve power."

ENERGETIKA, Praha, Czechoslovakia, Vol. 9, no. 3, March 1959

Monthly List of East European Acquisitions Index (EEAI), Library of Congress,
Vol. 8, No. 8, August 1959

Unclassified

82700
Z/020/60/000/007/013/037

8.5000

AUTHOR: Poláč, Jan

TITLE: Methods for Detecting Leakages in Hydrogen Generators

PERIODICAL: Energetika, 1960, No. 7, pp. 355 - 356

TEXT: The author describes the so-called "freonization" method, which was used to detect leakages in the hydrogen cooling system of a synchronous generator installed at a Czechoslovak power plant. This leakage occurred during operation, increased continuously and could not be detected by common methods such as soap water, pressure tests (Table 1 - 3) and filling with CO₂ (the latter method was used to detect hydrogen leaking into the lubricant). The "freonization" tests were conducted in cooperation with the "Leninovy Závody" in Plzeň, data on the effect of "freon 12" on various insulation types at various temperatures were obtained from the "ČKD - Stalingrad" Plant. For the test, the generator cooling system was pressurized to 300 mm Hg column with dry air and then to 400 mm Hg column with a dry air - freon 12 mixture. A total of 6 kg of freon was admixed to a total of 64 m³ pressure gas. The following 2 types of detectors were used:
1) The leakage detector "DIN", a prototype produced by the "Benzina" National Enterprise, suited to detect gases containing halogen. The portable instrument

Card 1/3

44

44

82700
Z/020/60/000/007/013/037

Methods for Detecting Leakages in Hydrogen Generators

could not be spotted by the above described conventional methods. The leakages were then sealed with several layers of "igelite" plastic tape, cemented with a special glue called "alkapren". There are 4 tables and 1 figure.

WT

Card 3/3

S/137/62/000/012/006/085
A006/A101

AUTHORS: Poláč, K., Bužek, Z.

TITLE: Temperature gradients in an arc-furnace pool

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 12, 45 - 46,
abstract 12V289 ("Sb. vědec. prací Vysoké školy báňské Ostravé",
1961, v. 7, no. 7, 791 - 798; Czech; summaries in Russian and
English)

TEXT: Results are presented of the experimental measurement of vertical
and horizontal temperature gradients in the oxidizing and reducing melting peri-
ods. The horizontal gradients vary during the oxidizing period from 0.12 to
0.18 degree/cm and during the reduction period from 0.3 to 0.6 degree/cm. The
vertical gradients vary during the oxidation period from 0.25 to 0.4 degree/cm
and during the reduction period from 0.4 to 0.9 degree/cm. Manual mixing reduced
temporarily the temperature gradients by 30 - 50%. ✓

[Abstracter's note: Complete translation]
Card 1/1

D. Kashayeva

Subject : USSR/Engineering AID P - 4776

Card 1/1 Pub. 103 - 3/24

Authors : Tlustyy, I, and M. Polacheck (Czechoslovakia)

Title : Theory of self-excited machine-tool vibrations and determination of stability of metal-cutting machines.

Periodical : Stan. i. instr., 3, 10-14, Mr 1956

Abstract : The first part of a report of study and results of experiments conducted by the authors at the Scientific Research Institute of Metal-cutting Machine-tools and the Processing of Metals by Cutting in Czechoslovakia. A new theory of vibrations is discussed, and a method of measurement and determination of equilibrium is established. Fourteen formulae, 7 drawings; 5 Russian references (1944-51) and 3 Czech. references (1952-54).

Institution : As above

Submitted : No date

Subject : USSR/Engineering AID P - 5032
Card 1/1 Pub. 103 - 3/22
Authors : Tlustyy, I and M. Polacheck
Title : Theory of self-excited machine-tool vibrations and determination of stability of metal-cutting machines.
Periodical : Stan. i instr., 4, 10-14, Ap 1956
Abstract : The second (and final) part of a report of study and results on experiments conducted by the authors at the Czechoslovakia Scientific Research Institute of Metal-cutting Machine Tools and the Processing of Metals by Cutting. A new theory of vibration in machines is discussed, and a method of measurement and determination of equilibrium is established. Eight formulae, 6 drawings and 8 graphs. Five Russian references (1944-51) and 3 Czech references (1952-54).
Institution : As above
Submitted : No date

124-58-9-9511

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 8 (USSR)

AUTHOR: Polacheck, Milosh

TITLE: Contemporary Methods of the Solution of Self-exciting Vibration Problems (Sovremennyye metody resheniya problemy avtokolebaniy)

PERIODICAL: Chekhosl. tyazh. prom-st', 1957, Nr 3, pp 46-50

ABSTRACT: A method is presented for the solution of a problem on the self-excited vibration of cutting machine tools. The tool is considered as a damped linear system. This system has a number of free vibratory modes with different frequencies. Each vibration is determined at the point of cutting by means of the following given quantities: the free vibration frequencies Ω_k , the damping coefficient λ_k , the angle α'_k between the vector of the relative vibrations X_k (between the cutting tool and the part being worked on) and the direction of the normal to the principal cutting edge of the tool N_k , the angle β_k between the vector X_k and the cutting-force vector P , and the degree of compliance p_k of the subject vibratory mode. These dynamic characteristics can be determined by means of the measurement of forced

Card 1/3

124-58-9-9511

Contemporary Methods of the Solution of Self-exciting Vibration Problems

vibrations of the machine tool with the aid of a special strain-gage arrangement. Vibrations are set up in the system by means of a variable force produced by an electromagnetic vibrator which acts between the cutting tool and the part being worked on. The circuitry of the measuring device is adduced. A fundamental equation is set up, using the characteristics Ω_k , λ_k , p_k and α_k ; the equation expresses the relationship between the magnitude of the cutting force and the periodic variation of the cross section of the shaving, during which the variable cutting-force component excites forced vibrations in the complicated vibratory system of the machine tool. These vibrations produce a periodic relative motion between the cutting tool and the part which in turn results in a variation of the cross section of the shaving. The fundamental equation has the form

$$\sum_k p_k \cos \alpha_k \cos \beta_k \frac{\Omega_k^2}{\Omega_k^2 - (\omega - j\lambda_k)^2} = - \frac{1}{r(1-e^{i\varphi})}$$
$$j = \sqrt{-1} \quad (1)$$

where ω is the frequency of the self-excited vibration, φ is the phase angle, and r is the cutting-depth factor which corresponds to the given thickness of the shaving. An important problem consists in the determination of the critical

124-58-9-9511

Contemporary Methods of the Solution of Self-exciting Vibration Problems

value of r_{lim} and ω at the limit of the stable range of the system. This quantity can be found from the real part of equation (1)

$$\sum_k p_k \cos \alpha_k \cos \beta_k \Omega_k^2 \frac{\Omega_k^2 + \lambda_k^2 - \omega^2}{(\Omega_k^2 + \lambda_k^2 - \omega^2) + 4\omega^2 \lambda_k^2} = -\frac{1}{2r} \quad (2)$$

The results of an investigation of the critical conditions for one form of the operation of a cantilever-type milling machine are set forth.

S. N. Shimanov

1. Vibration--Mathematical analysis
2. Cutting tools--Mathematical analysis
3. Machine tools--Operation

Card 3/3

POLACHEK, P.

USSR/Human and Animal Morphology - (Normal and Pathological)
Nervous System. Peripheral Nervous System

S

Abs Jour : Ref Zhur Biol., No 6, 1959, 26109
Author : Polacheck, P., Ledinskaya, N.
Inst :
Title : -IZ KAPERAY ANATOMII VOVENNO-MED. ORGENA
The Changes of Peripheral Nervous System Which Arise in
Cooling and Artificial Hypothermia in Laboratory Animals
Orig Pub : Byul. eksperim. biol. i med., 1958, 45, No 5, 118-121

Abstract : Intramural cardiac ganglia, intramural nerve plexuses
of duodenum and richly innervated joint capsules of hip
and knee joints were studied in three series of experiments
on 78 rats and 10 rabbits. The obtained data testifies to the most significant changes of the peripheral
nervous system of animals which were subjected to simple
cooling. In artificial hypothermia (according to Labori)
and in action of largactyl, these changes are less expressed.
The lower the body temperature and the longer the

Card 1/2

POLACHOVA, A.

Fireproof keramzit concrete on the basis of water glass.
Stavivo 42 no. 6:233 '64.

POLACHOVA, A., prom. fil.

Combined method of mineral cotton production by drawing
and vertical blowing and its processing. Stavivo 42 no. 3:
103-104 Mr '64.

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341710014-9

POL/CHOVA, A.

Economical method of spreading cementing agents in mineral wool.
Stavivo 42 no.11:437 N 164.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001341710014-9"

FISCHEROVA, E.; POLACHOVA, H.

Polarographic behavior of some chromium complexes. Pt.4.
Coll Cz Chem 30 no.1:340-344 Ja '65.

1. Institut fur theoretische und physikalische Chemie, Purkyne
Universitat, Brno. Submitted January 15, 1963. 2. Present
address: Forschungsinstitut fur makromolekulare Chemie,
Brno (for Polachova).

POLACHOWSKI, Kazimierz

Cytological studies on vulvar erythroplasia (with a discussion on the pathological entity). Rozpr. wydz. nauk. med. 8 no.2:225-256 '63.

l. St. asystent Zakladu Patologii Instytutu Onkologii im. M.Sklodowskiej-Curie w Warszawie.

*

POLACHOWSKI, Kazimierz, dr. med.

Topical treatment of a borderline case of preinvasive cancer of
the uterine cervix with subsequent pregnancy. Pol. tyg. lek.
20 no.122444-446 22 Mr '65

1. Z Oddzialu Polozniczo-Ginekologicznego Centralnego Klinicznego Szpitala MSW (Ordynator: dr. med. M. Zielinski) i z Centralnej Poradni Onkologicznej d Chorob Kobiecych w Warszawie (Kierownik: dr. med. K. Polachowski).

POLACHOWSKI, Kazimierz (Warszawa)

George Nicholas Papanicolaou (1883-1962). The 1st anniversary
of his death. Nowotwory 13 no.2:191-193 '63.

(OBITUARIES) (NEOPLASM DIAGNOSIS)
(VAGINAL SMEARS) (CYTODIAGNOSIS)

RUDOWSKI, W.; POLACHOWSKI, K.

Critical remarks on the free-floating cells in the peripheral blood. Neoplasma (Bratisl) 12 no.2:167-172 '65.

1. The Surgical Clinic Warsaw Institute of Hematology, Warsaw, Poland.

POLACHOWSKI, KAZIMIERZ

TER, Jerzy; POLACHOWSKI, Kazimierz

Cytological picture of vaginal cervical smears in trichomoniasis.
Polski tygod. lek. 9 no.22:688-694 31 May 54.

1. Z Centralnej Poradni Onkologicznej dla Chorob Kobiecych w
Warszawie; kierownik dr med. J.Teter.

(VAGINAL SMEARS, in various diseases,
trichomoniasis)

(VAGINA, diseases,
trichomoniasis, cervicovaginal smears in)
(TRICHOMONIASIS,
vagina, cervicovaginal smears in)

POLACHKOVA,

Czechoslovakia/Plant Physiology

Growth and development

H-5

Abs Jour : Referat. Zh - Biol., No 6, 25 March 1957, 22411

Author : Gorzhavka, Polachkova, Zhizhka

Inst : Not given

Title : A method for establishing the light stage in buckwheat
(*Fagopyrum sagittatum* Gilib).

Orig Pub : Sbor. Ceskosl. akad. zemed. ved. Rada-Rostl. výroba, 1956,
29, No 3, 213-248

Abstract : The scale of growth development of buckwheat for a natural and shortened day was established. Taking this scale into account, the authors established that the light stage of the tested buckwheat type lasts 2-5 days depending on the length of day and temperature. The light stage terminates most rapidly in a 12-hour day. The biological adaptability of plants to a light regimen is very broad; development is possible in day-lengths from 5 to 24 hours. The plants reacted to the photo-period even in the cotyledon stage. Bibl. 26 refs.

Card 1/1

-35-

POLACHOWSKI, Kazimierz

Treatment of trichomoniasis in women with dichloro-diphenyl-trichloro-ethane. Gin. polska 28 no.5:627-630 Sept-Oct 56.

l. Z Poradni Onkologicznej Polikliniki Centralnego Szpitala M.S.W. Kierownik Oddziału Ginekologicznego: dr. M. Zieliński Warszawa, ul. Wawelska 11a, mieszkanie 6.

(VAGINITS, TRICHOMONAS, therapy
DDT (Pol))

(DDT, therapeutic use
vaginitis, Trichomonas (Pol))

POLACHOWSKI, Kazimierz; TETER, Jerzy

Effect of trichomonal infection on the development of precancerous states in the uterine cervix. Gin. polska 28 no.5:631-636 Sept-Oct 56.

1. Z Centralnej Poradni Onkologicznej dla Chorob Kobiecych w Warszawie. Kierownik: doc. dr. Jerzy Teter, i z Poradni Onkologicznej Polikliniki Centralnego Szpitala M.S.W. Kierownik Oddziału Ginekologiczno-Położniczego: dr. M. Zieliński, K.M., Warszawa, ul. Wawelska 11a, m. 6.

(CERVIX, UTERINE, diseases
precancerous lesions, relation to trichomonal infect. (Pol))
(TRICHOMONIASIS
vaginalis, relation to precancerous lesions of uterine
cervix (Pol))

~~KAZIMIERZ POLACHOWSKI / KAZIMIERZ~~

PUMPIANSKI, Rafal.; POLACHOWSKI, Kazimierz; SLUCKI, Leon.

No translation. Polski tygod. lek. 12 no.14:514-517 1 Apr '57.

1. Z Kliniki Poloznictwa i Chorob Kobiecyh Instytutu Matki i Dziecka w Warszawie; dyrektor Instytutu: prof. dr F. Groer, kierownik Kliniki: doc. dr J. Lesifiski oraz z Centralnej Polikliniki M. S. W. Warszawa, ul. Madalinskiego 25, Klinika Poloznictwa i Chorob Kobiecyh Instytut Matki i Dziecka.

(VAGINITIS, TRICHOMONAS, ther.)

DDT, combined ther. of vaginal & urinary trichomoniasis (Pol)

(URINARY TRACT, dis.

trichomoniasis, combined DDT ther. of vaginal & urinary trichomoniasis (Pol))

(TRICHOMONIASIS, ther.

DDT, combined ther. of vaginal & urinary trichomoniasis (Pol))

(DDT, ther. use

trichomoniasis, vaginal & urinary, combined ther. (Pol))

POLACHOWSKI, K.

Dynamics of the development of precancerous states of the cervix
uteri. Vop. onk. 6 no.7:75-78 Je '60. (MIRA 14:4)
(UTERUS---CANCER)

POLACHOWSKI, Kazimierz

Use of large doses of progesterone in cases of pre-invasive cancer
of the cervix uteri. Preliminary communication. Gin. polska 32
no.5:609-612 '61.

1. Z Centralnej Poradni Onkologicznej dla Chorob Kobiecych w
Warszawie Kierownik: doc. dr med. J.Teter i z Oddzialu Polozniczo-
Ginekologicznego Centralnego Szpitala Klinicznego MSW w Warszawie
Kierownik: dr med. M.Zielinski
(CERVIX NEOPLASMS ther) (PROGESTERONE ther)

POLACHOWSKI, Kazimierz

Diagnostic difficulties in syphilitic erosions of the cervix uteri
(primary syphilis of the cervix uteri). Ginek. Pol. 33 no.1:117-121
'62.

l. Z Centralnej Poradni Onkologicznej dla Chorob Kobiety w Warszawie
Kierownik: doc. dr med. J. Teter oraz z Poradni Onkologicznej Central-
nego Szpitala Klinicznego w Warszawie Kierownik Oddziału Ginekologiczno-
Polozniczego: dr med. M. Zielinski.

(SYPHILIS diag) (CERVIX UTERI dis)

POLACIK Alexander, inz., CSc.

Plywood industry of Finland. Drevo 18 no.10:381-387 0 '63.

1. Vysoka skola lesnicka a drevarska, Zvolen.

POLACKA, Bogumila; POLACKI, Zenon;; SPIEWAK, Erazm

Studies on the scintillation properties of silicone oil.
Matem fiz chem Gdansk 2 93-97 '62.

1. Katedra Fizyki, Wyzsza Szkola Pedagogiczna, Gdansk.

POLACKA, B

Distr: bE2c(j)

Emission anisotropy of photoluminescence of Plexiglass
luminophors. J. Czajkowski, A. Kawski, and B. Polacka
(Politech., Gdansk, Poland). *Bull. acad. polon. sci., Ser.
sci. Math., astron. et phys.*, 7, 353-5(1959)(in English).—
The emission anisotropy, r , (Jabłoński, *CA* 53, 14085f;
52, 7854d) (related to the degree of polarization, P , by the
equation $r = 2P/(3 - P)$) was measured by a visual
method (Kawski, *CA* 53, 2787a; preceding abstr.), for
yellow eosin ($C_20H_{14}O_2Br_2K$), tetrabromofluorescein, and
fluorescein, in Me methacrylate or in Me methacrylate with
EtOH, which were slowly (30-40 days) polymerized. The
solns. were excited with a Hg lamp with a Wood filter and
Glan polarizing prism. A decrease of r with concn. increase
was observed for yellow eosin and tetrabromofluorescein
solns., and a const. r was found for fluorescein, while
Czajkowski and Grzywacz (*CA* 52, 18439e) observed a rise
of r with concn. for eosin. The excitation mechanism
advanced by them is therefore not confirmed. J. Stoeckl

16
1-907(NA)

KAWSKI, A.; POLACKA, B.; CZYZ, P.

Influence of solvent mixture on the absorption and fluorescence spectra of dyes. Acta physica Pol 23 no.6:705-714 Je '63.

1. Physikalisches Institut der Pädagogischen Hochschule, Gdańsk.

KAWSKI, A.; POLACKA, B.

Influence of the solvent on the electron spectra of POPOP.
Acta physica Pol 23 no.6:811-817 Je '63.

1. Physikalisches Institut, Pädagogische Hochschule, Gdańsk.

POLACKA, B.

Anomalous dependence of the emission of anisotropy on the viscosity of the solution. Bul Ac Pol mat 12 no. 2:131-136 '64.

1. Department of Physics, Normal School, Gdansk. Presented by A. Jablenski.

L 18889-63 EWT(1)/BDS AFFTC/ P/0047/63/014/002/0191/0207
ACCESSION NR: AP3001752 ASD/SSD

54.

AUTHOR: Kawski, Alfous; Polacka, Bagumila

TITLE: Methods for measuring the luminous efficiency of solutions

SOURCE: Postepy fizyki, v. 14, no. 2, 1963, 191-207

TOPIC TAGS: photoluminescence, luminous efficiency, quantum yield, glycogen

ABSTRACT: Authors review existent literature pertaining to methods of measuring luminous efficiency of solutions. Seven methods are described. Theoretical assumptions, figures and equations are reproduced from the cited references. Authors present nothing new, limiting themselves to describing what others have done in this field. Orig. art. has: 10 figures, 1 table and 39 equations.

ASSOCIATION: Katedra Fizyki Wyższej Pedagogicznej w Gdansku (Department of Physics, Gdańsk Pedagogical Institute)

SUBMITTED: 00
SUB CODE: PH
Card 1/1

DATE ACQ: 12Jun63
NO REF SOV: 001

ENCL: 00
OTHER: 018

KAWSKI, Alfons; POLACKA, Bogumila

Measuring methods of the photoluminescent efficiency of
solutions. Postępy Fizyki 14 no.2:191-207 '63.

1. Katedra Fizyki, Wyższa Szkoła Pedagogiczna, Gdańsk.

KAWSKI, A.; POLACKA, B.

Absorption and fluorescence spectra of fluorescein PMAM. Acta physica
Pol 21 no.2:193-195 F '62.

1. Physikalisches Institut der Pädagogischen Hochschule, Gdańsk.

P/045/61/020/011/003/004
B137/B108

AUTHORS: Kawasaki, A., Polacka, B., and Polacki, Z.

TITLE: Absorption and luminescence spectra of some dyes in mono-
and polymethyl methacrylate

PERIODICAL: Acta Physica Polonica, v. 20, no. 11, 1961, 903 - 914

TEXT: Jabłoński's theory (Jabłoński, A., Acta phys. Polon., 14, 295
(1955) and 17, 481 (1958)) on the self-depolarization of photoluminescence
of solid dye solutions was experimentally verified. For this purpose the
authors measured the fluorescence and absorption spectra of solutions of
fluorescein, yellowish eosin, rhodamine B, and rhodamine 6G in plexiglass.
To improve the solubility of the dyes, 10% of ethyl alcohol were added to
the methyl methacrylate from the "Zakłady Chemiczne Oświecim". The
polymerization of the solutions took place within a few months in the dark
and, in some cases (fluorescein and yellowish eosin) under the light of a
mercury vapor lamp. The absorption spectra were measured with an arrange-
ment consisting of a Zeiss monochromator and an RCA 5819 or FEU-19 photo-
multiplier, while the fluorescence spectra were recorded with a Zeiss

Card 1/3

P/045/61/020/011/003/004
B137/B108

Absorption and luminescence...

reflecting monochromator, an RCA 5819 photomultiplier, and a d-c bridge amplifier. The results obtained for fluorescein ($C_{20}H_{12}O_5$) showed that a band at 4600 Å was clearly observable only if polymerization was carried out in light. The emission spectra of yellowish eosin ($C_{20}H_{8}O_5Br_4K$) also indicated that the shape and position of the spectra was largely dependent on the kind of polymerization. A comparison of the absorption and emission spectra of yellowish eosin in plexiglass and glycerin showed that the overlap of the two spectra obtained for the solution in plexiglass was much larger than that found for the solution in glycerin. In contrast to the absorption and emission spectra of yellowish eosin, those of rhodamine B ($C_{28}H_{31}O_3N_2Cl$) exhibit the same position of the maximum for all solvents, and do not depend on the concentration of the dye. The effect of ultraviolet light is considerably less than for eosin. The same qualitative results were obtained for rhodamine 6G ($C_{26}H_{27}O_3N_2Cl$). The effect of alcohol on the spectra was insignificant in all solutions. The shape and position of the spectra was, however, largely dependent on irradiation during polymerization. Doctor A. Uzarewicz of the Institute

Card 2/3

POLACKA, B.

Polarization spectra of POPOP and β -NPO in polymethyl methacrylate. Bul Ac Pol math 12 no.8:491-495 '64.

1. Department of Physics, Teachers' College, Gdansk.
Presented by A. Jablonski.

POLACKI, Z.

Note on the increase in radioluminescence efficiency accompanying a decrease in average molecular weight of the polystyrene solvent. Acta physica Pol. 25 no. 2&273-276 F '64

1. I Department of Physics, Technical University, Gdansk.

21.600024135
P/046/60/005/009/006/006

D241/D302

AUTHORS: Andruszkiewicz, Jozef, Kuzma, Witold, Polacki,
Zenon

TITLE: Plastic scintillators

PERIODICAL: Nukleonika, v. 5, no. 9, 1960, 575 - 582

TEXT: p-terphenyl + POPOP in polystyrene plastic scintillators have been produced. The dependence of the detection efficiency upon the composition of scintillators is investigated in order to find the optimum concentration of ingredients. The dependence of the detection efficiency upon the size of the scintillator is also investigated. The authors aim is to produce scintillators for gamma-rays of energy around 1 MeV to suit Soviet photomultipliers 40Y-19 (FEU19). FEU-19 have Sb-Cs cathodes and their maximum sensitivity lies at about 4100 Å. The role of POPOP is to shift the spectrum of light emitted by terphenyl, whose maximum is at 3400 - 3700 Å, toward longer wavelengths to match the sensitivity of the photocathode. In order to measure the variation of counting rate with the size of the scintillator, material

Card 1/3

Plastic scintillators

24135
P/046/60/005/009/006/006
D241/D302

from the same sample was machined to a diameter of 38'1 mm and cut to different heights. ^{65}Zn gamma-source was in each case placed adjacent to the top of the scintillator, the beta rays being totally absorbed in a 1'5 mm thickness of aluminum. For the given geometry and gamma-ray energy the highest counting rate was found for a scintillator of about 3'5 cm height. Since the self-absorption of light is the main factor limiting the size of the scintillator, the absorption was measured directly. A luxmeter was used for this purpose with light of 4290 Å wavelength. The coefficient of absorption of $0'0395 \text{ cm}^{-1}$ compares favorably with the value of $0'0593 \text{ cm}^{-1}$ given by C.N. Chou (Ref. 6: Phys. Rev. 87, 376 (1952)). The pulse-height distributions from the plastic scintillator were compared with those from a crystal of tolan (diphenyl-acetylene). The obtained ratios between the pulse-heights from the plastic scintillators and tolan were then related to anthracene. To find the optimum concentration of ingredients, plastics with various concentrations were polymerized simultaneously to eliminate possible variations due

Card 2/3

Plastic scintillators

P/046/60/005/009/006/006
D241/D302

to differing conditions of polymerization. The best results were obtained with a scintillator of the following composition: 3,4'-*nitrophenyl* and 0'025% POPOP (by weight). These plastic scintillators yield pulse-heights 44% of pulse-heights in anthracene crystal. *Nitrophenyl* and POPOP = 1,4 - bis/2 - (5 - phenyl-oxopolyi) / - benzene were made in the Department of Inorganic Chemistry of the Gdańsk Technical University. There are 5 figures and 7 references: 2 Soviet-bloc and 5 non-Soviet-bloc. The references to the English-language publications read as follows: *Progress in Nuclear Physics*, vol. 5. London 1956 Pergamon Press; J.W. Clark and others: *Rev. Scien. Instrum.* 26, 433 (1957); S.N. Dhar, *nuc. Rev.* 67, 376 (1952); F.H. Hayes and others: *Nucleonics* 14, 12 1 (1952).

DESCRIPTION: Politechnika gdańska, katedra fizyki (Gdańsk Technical University, Department of Physics)

SUBMITTED: June, 1959

Card 3/3

GRZYWACZ, J.; KAWSKI, A.; POLACKI, Z.

On the photoluminescence of fluorescein in methyl polymethacrylate.
Bul Ac Pol mat 8 no.3:187-190 '60. (EEAI 9:11)

1. 1st Department of Physics, Technical University, Gdansk and
Physics Department, Normal Pedagogic School, Gdansk, Presented by
A.Jablonski.

(Luminescence)
(Fluorescein)
(Methyl methacrylate)
(Polymers and polymerization)

24,3500

S/081/62/000/006/007/117
B166/B101

AUTHORS: Kawski, A., Polacki, Z.

TITLE: Concentration extinction of the fluorescence of anthracene
in plexiglassPERIODICAL: Referativnyy zhurnal. Khimiya, no. 6, 1962, 14, abstract
6B66 (Bull. Acad. polon. sci. Sér. sci., math., astron.
et phys., v. 8, no. 11-12, 1960, 817-819)

TEXT: The relative fluorescence yields are determined for solutions of anthracene in plexiglass over a wide range of concentrations. It is established that the concentration extinction of anthracene is insignificant, and only becomes marked at a concentration of $\sim 10^{-2}$ moles. The deviations found earlier between the experimental relationship of concentration depolarization (at high anthracene concentrations) and that computed from the Yablonskiy formula (RZhKhim, 1956, no. 20, 64545) can be attributed to the neglect of the concentration extinction of anthracene in the calculations. [Abstracter's note: Complete translation.]

Card 1/1

POLACKA, Bogumila; POLACKI, Zenon;; SPIEWAK, Erazm

Studies on the scintillation properties of silicone oil.
Matem fiz chem Gdansk 2 93-97 '62.

1. Katedra Fizyki, Wyzsza Szkola Pedagogiczna, Gdansk.

POLACKI, Zenon

Dependence of radioluminescence yield on the method of polymerization
in plastic scintillators. Nukleonika 6 no.10:643-648 '61.

1. Politechnika Gdanska, Katedra Fizyki I, Gdansk.

(Radioactivity)

P/045/61/020/011/003/004
B137/B108

AUTHORS: Kawasaki, A., Polacka, B., and Polacki, Z.

TITLE: Absorption and luminescence spectra of some dyes in mono-
and polymethyl methacrylate

PERIODICAL: Acta Physica Polonica, v. 20, no. 11, 1961, 903 - 914

TEXT: Jabłoński's theory (Jabłoński, A., Acta phys. Polon., 14, 295
(1955) and 17, 481 (1958)) on the self-depolarization of photoluminescence
of solid dye solutions was experimentally verified. For this purpose the
authors measured the fluorescence and absorption spectra of solutions of
fluorescein, yellowish eosin, rhodamine B, and rhodamine 6G in plexiglass.
To improve the solubility of the dyes, 10% of ethyl alcohol were added to
the methyl methacrylate from the "Zakłady Chemiczne Oświecim". The
polymerization of the solutions took place within a few months in the dark
and, in some cases (fluorescein and yellowish eosin) under the light of a
mercury vapor lamp. The absorption spectra were measured with an arrange-
ment consisting of a Zeiss monochromator and an RCA 5819 or FEU-19 photo-
multiplier, while the fluorescence spectra were recorded with a Zeiss
Card 1/3

P/045/61/020/011/003/004
B137/B108

Absorption and luminescence...

reflecting monochromator, an RCA 5819 photomultiplier, and a d-c bridge amplifier. The results obtained for fluorescein ($C_{20}H_{12}O_5$) showed that a band at 4600 \AA was clearly observable only if polymerization was carried out in light. The emission spectra of yellowish eosin ($C_{20}H_8O_5Br_4K$) also indicated that the shape and position of the spectra was largely dependent on the kind of polymerization. A comparison of the absorption and emission spectra of yellowish eosin in plexiglass and glycerin showed that the overlap of the two spectra obtained for the solution in plexiglass was much larger than that found for the solution in glycerin. In contrast to the absorption and emission spectra of yellowish eosin, those of rhodamine B ($C_{28}H_{31}O_3N_2Cl$) exhibit the same position of the maximum for all solvents, and do not depend on the concentration of the dye. The effect of ultraviolet light is considerably less than for eosin. The same qualitative results were obtained for rhodamine 6G ($C_{26}H_{27}O_3HCl$). The effect of alcohol on the spectra was insignificant in all solutions. The shape and position of the spectra was, however, largely dependent on irradiation during polymerization. Doctor A. Uzarewicz of the Institute

Card 2/3

POLACKI, Z.

On the dependence of radioluminescence efficiency on the average
molecular weight of polystyrene scintillators. Acta physica Pol
23 no.5:589-600 My '63.

1. Institute of Physics I, Technical University, Gdańsk.

P/047/62/013/002/004/006
D218/D308

AUTHOR: Polacki, Zenon

TITLE: Thermoluminescent dosimeters

PERIODICAL: Postępy fizyki, v. 13, no. 2, 1962, 165 - 175

TEXT: A review based entirely on published information and concerned with the fundamentals of thermoluminescence and its application in gamma-ray, x-ray and beta-ray dosimetry. There are 11 figures, 1 table and 9 references.

ASSOCIATION: Politechnika Gdańsk, Katedra fizyki (Gdańsk Polytechnic, Physics Department)

Card 1/1

ZALMAN, E.; POLACKOVA, J.; KRUPICKA, B.

Effect of psychoton on normal subjects. Lek.Listy 6 no.1:19-23
(CML 20:5)
1 Jan 51.

1. Of the State Psychiatric Hospital in Brno-Cernovice (Head--
Mil Zalman, M.D.).